

**Table C-108. Federal obligations for basic research, by detailed field of science and engineering:  
fiscal years 1981-91**

[Dollars in millions]

Field of science and engineering	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total, all fields .....	5,041.3	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6	12,170.8
Life sciences, total .....	2,223.8	2,526.0	2,891.3	3,287.6	3,786.6	3,858.8	4,361.9	4,501.8	4,915.7	5,177.5	5,433.6
Biol & agricultural, total .....	1,462.4	1,674.8	1,928.8	2,174.7	2,515.5	2,543.0	2,870.4	2,855.3	3,102.9	3,219.0	3,374.9
Biol (excl environmental) .....	1,201.7	1,401.2	1,621.9	1,835.8	2,106.3	2,151.5	2,461.5	2,414.9	2,647.2	2,742.2	2,868.5
Environmental biology .....	83.3	83.2	92.7	120.8	125.7	125.7	141.0	146.8	157.3	168.3	186.9
Agricultural .....	177.4	190.4	214.2	218.1	283.5	265.7	267.9	293.7	298.4	308.5	319.4
Medical sciences, total .....	706.2	793.4	878.9	1,015.3	1,145.4	1,196.6	1,341.0	1,573.2	1,708.4	1,849.6	1,857.7
Life sciences, n.e.c. ....	55.3	57.8	83.6	97.7	125.7	119.2	150.6	73.2	104.4	108.9	201.0
Psychology, total .....	91.0	89.9	92.9	107.9	132.8	133.0	147.1	177.8	187.1	215.1	225.5
Biological aspects .....	30.5	32.9	31.4	43.7	48.0	47.0	49.3	52.4	61.0	65.3	68.2
Social aspects .....	30.2	33.7	32.8	33.4	46.9	45.3	45.5	40.9	38.1	60.9	69.2
Psychological sci, n.e.c. ....	30.2	23.3	28.7	30.8	38.0	40.7	52.3	84.5	88.0	88.8	88.1
Physical sciences, total .....	1,324.9	1,393.8	1,587.2	1,728.0	1,815.2	1,914.4	2,096.0	2,199.6	2,506.5	2,661.5	2,881.5
Astronomy .....	274.2	271.1	354.5	379.6	400.7	453.1	504.5	458.5	524.6	579.9	612.3
Chemistry .....	298.2	312.0	362.2	403.4	425.0	433.4	445.1	470.8	504.6	502.1	538.7
Physics .....	735.4	790.7	855.1	921.4	959.9	1,003.4	1,072.3	1,205.5	1,395.3	1,474.3	1,644.9
Physical sciences, n.e.c. ....	17.1	20.0	15.4	23.6	29.7	24.7	74.2	64.8	81.9	105.1	85.5
Environmental sciences, total .....	532.8	520.0	580.1	656.7	699.7	749.1	781.0	872.7	1,016.9	1,274.8	1,263.5
Atmospheric sciences .....	173.8	163.2	172.6	192.2	209.2	240.4	243.8	280.7	316.4	443.7	449.0
Geological sciences .....	194.2	177.5	178.3	198.0	250.0	265.5	266.2	267.3	334.9	439.7	499.0
Oceanography .....	143.3	154.5	195.6	220.1	219.3	224.3	249.8	269.4	293.5	299.7	197.5
Environmental sci, n.e.c. ....	21.5	24.9	33.5	46.4	21.2	18.9	21.2	55.2	72.1	91.6	118.0
Math & computer sci, total .....	140.4	165.1	208.1	240.8	260.0	293.4	306.4	313.2	345.8	406.9	426.1
Mathematics .....	79.2	90.9	100.9	113.9	130.3	142.4	158.4	165.4	167.8	176.3	164.4
Computer sciences .....	52.2	67.4	90.4	104.8	116.1	131.4	128.5	125.5	159.5	225.2	223.5
Math & computer sci, n.e.c. ....	9.0	6.8	16.8	22.2	13.6	19.6	19.5	22.4	18.4	5.3	38.2
Engineering, total .....	526.0	610.5	689.5	845.0	884.2	968.5	989.5	1,006.2	1,183.7	1,101.5	1,233.7
Aeronautical .....	113.3	126.5	140.7	225.5	191.5	226.3	237.4	231.0	327.9	269.6	256.2
Astronautical .....	33.2	44.8	50.4	52.4	41.6	52.5	48.8	48.4	58.9	62.3	69.7
Chemical .....	31.3	35.2	50.4	55.5	74.4	73.0	77.5	88.6	50.1	75.8	101.7
Civil .....	23.4	32.0	32.4	41.9	43.6	45.2	45.7	46.1	51.7	47.3	59.3
Electrical .....	78.5	93.6	95.8	130.4	144.9	156.3	175.4	154.0	173.8	146.9	142.5
Mechanical .....	47.4	53.1	60.7	64.1	88.2	83.6	87.2	83.5	100.8	91.4	115.6
Metallurgy & materials .....	138.5	155.9	182.9	187.3	211.9	228.5	209.8	230.1	254.8	260.2	294.6
Engineering, n.e.c. ....	60.5	69.4	76.2	87.9	88.2	103.2	107.8	124.4	165.7	147.9	194.3
Social sciences, total .....	137.0	120.2	137.7	132.6	140.7	113.5	129.5	146.8	154.6	146.0	161.3
Anthropology .....	13.1	13.1	11.2	16.8	15.8	11.2	12.3	12.1	12.1	12.5	12.7
Economics .....	34.1	39.0	41.0	29.7	34.3	26.3	29.0	34.7	37.7	37.1	37.3
Political science .....	6.3	4.4	4.6	4.1	5.8	4.1	5.5	5.1	5.4	6.4	7.1
Sociology .....	22.6	18.7	32.8	33.9	32.4	30.0	34.3	36.8	38.2	24.2	28.2
Social sciences, n.e.c. ....	60.9	45.1	48.2	48.1	52.4	41.9	48.4	58.1	61.2	65.8	75.9
Other sciences, n.e.c. ....	65.4	56.1	73.3	68.8	99.4	122.5	130.9	255.5	291.7	302.3	545.6

**KEY:** n.e.c. = Not elsewhere classified

**NOTE:** Because of rounding, detail may not add to totals.

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: Fiscal Years 2000, 2001, and 2002